



# GALAXY RESOURCES LIMITED

## Annual General Meeting Presentation

May 2017

ASX: GXY

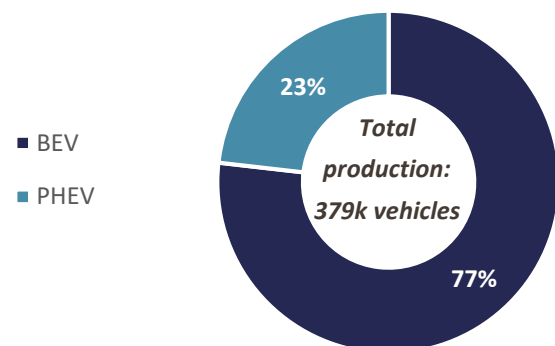
# Industry Update

---

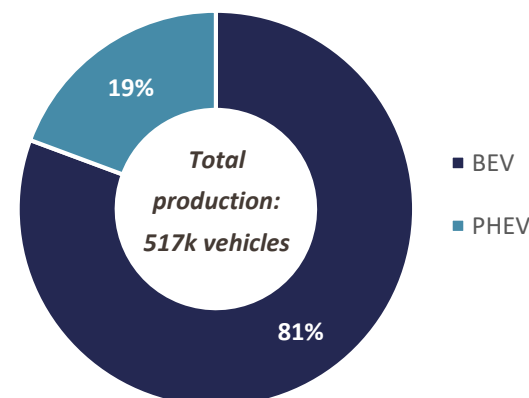
# New Energy Vehicle Growth in China

Another record breaking year in 2016, with 517k New Energy Vehicles (NEV) produced in China, 80% of which were pure electric vehicles

2015 Breakdown of New Energy Vehicle Production in China



2016 Breakdown of New Energy Vehicle Production in China



Annual growth rate c. 36%

Source: CJ Securities, CAAM

2017 YTD NEV Unit Production<sup>1</sup>

NEV model	1Q 2017	Apr	YoY growth
BEVs	47.9k	30.2k	+26.1%
PHEVs	10.3k	7.1k	+3.9%

- For passenger vehicles produced: Battery Electric Vehicle (BEV) YoY volume growth was 73% and Plug-In Hybrid Electric Vehicle (PHEV) YoY volume growth was 30%
- For commercial vehicles produced: BEV YoY volume growth was 50% and PHEV YoY volume growth was 23%

Projected 2017 NEV unit production of c. 700k vehicles, which (if achieved) is equivalent to another 35% growth YoY

Source: CAAM, CJ Securities




Note:

1. BEVs = Battery Electric Vehicles, PHEV = Plug-In Hybrid Electric Vehicles

# Electric Vehicles On The Road In China

Over 170 models of passenger vehicles in the first four batches of type-approved NEVs in 2017

## Largest NEV Passenger Vehicle Producers in China

Auto manufacturer	2015 PV units	2016 PV units	2017 PV units (as at 30 April)
	60.2k	84.5k	11.5k
	52.1k	46.0k	12.3k
	18.4k	46.2k	17.3k

c. 51% of total NEV passenger vehicles produced in 2016

Source: CAAM, CJ Securities

BAIC EC180 electric vehicle



BYD E6 electric vehicle



Geely Emgrand electric vehicle



## China continues its leading investment into NEVs and has introduced a number of policy measures aimed at continuing to encourage uptake

### Government Policy and Investment

- **Committed domestic investment** – Committed to build out of a nationwide charging infrastructure to support 5 million NEVs by 2020
- **Mandatory NEV targets** – Government initiating credit system encouraging auto manufacturers to target NEV production percentages of 8%, 10% and 12% over the next 3 years
- **Limiting ICE production** – Penalties for manufacturers exceeding certain production thresholds

### China Licensing Restrictions

- Certificate of entitlement (COE) required to purchase a car
  - Cost of a COE (Shanghai) for an internal combustion engine (ICE) vehicle: US\$15k for an individual; US\$30k for a company
  - **Free for NEVs**
- **In Beijing and Shanghai, anyone can purchase an NEV**
  - The right to purchase an ICE vehicle is subject to a lottery
  - Estimated lottery success rates: 4% (Shanghai); 0.2-0.3% (Beijing)
- Restriction on the number of days an individual can drive an ICE car
  - **No driving restrictions for NEVs**

Shanghai license plates used to distinguish between car types



Blue plates: ICE vehicles

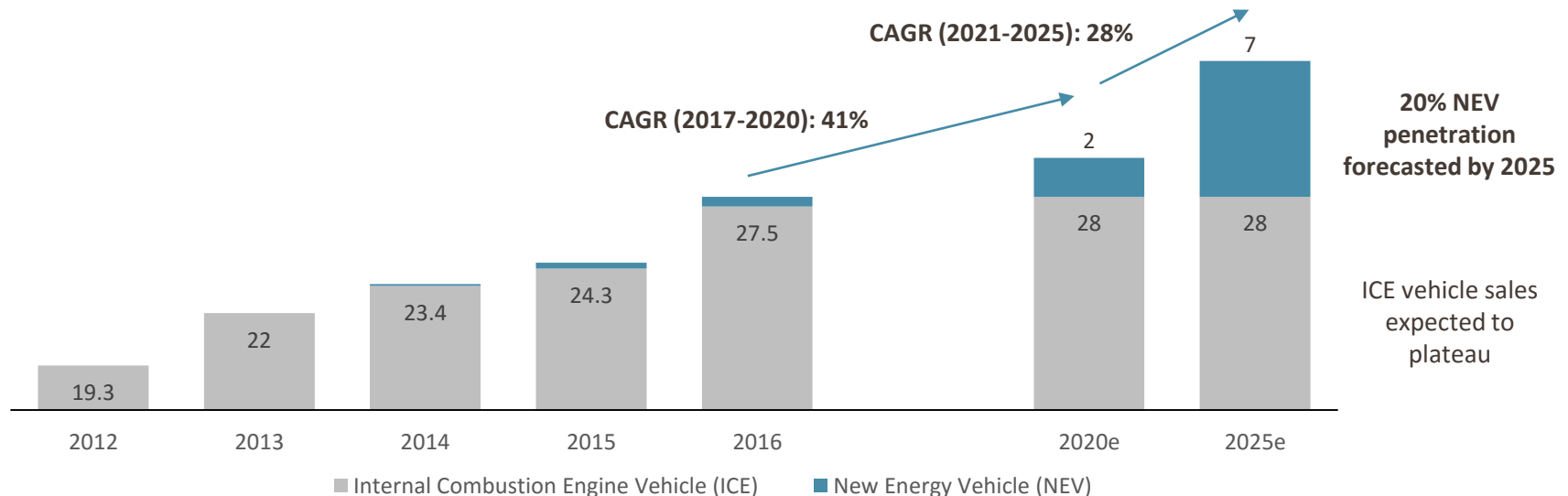


Green plates: NEV vehicles

## NEV growth is a substantial component in China's evolving transportation market, as well as a major part of its international industrial policy

- “Medium to long term plan for the auto industry” (2025 plan) issued in April, detailing how China plans to strengthen its domestic auto industry and expand global exports of new energy vehicles
- Projected that sales of conventional ICE vehicles in China will stabilise, with all vehicle sales to come from NEVs
- NEV sales of 7 million vehicles in a total of 35 million vehicles sold represents c. 20% penetration rate of NEVs in 2025

### Projected China Vehicle Sales According to 2025 Plan (millions of vehicles)



Source: Bloomberg, Statista

## Dramatic shift towards the conventionalisation of NEVs, as major automakers from across the globe increase investment and accelerate development

### Automaker NEV Strategies



Accelerating production with the aim of producing 1 million NEVs annually by 2020



Forecasting annual unit sales of 2 to 3 million NEVs by 2025 (25% of sales)



Targeting NEV penetration of 15%-25% of total worldwide sales by 2025



**DAIMLER**



Targeting 10 new NEV models by 2022, supported by €10bn investment program



Committed to a A\$4.5bn phased electrification of vehicles

Source: Company releases

**Future EV sector growth strengthened through the launch of electric and hybrid commercial vehicles, such as buses, minibuses, trucks and delivery vans**

**BYD 60ft All-Electric Bus (547kWh battery)**



**Tesla Semi**



**Nikola One Truck (320kWh battery)**



**Daimler (Mercedes-Benz) Electric Truck (212kWh battery)**





In addition to batteries for electric vehicles, home and commercial energy storage is also developing into a growth segment for lithium-ion batteries

## Residential Storage On The Market Today

Company	Tesla	Panasonic	BYD	Kokam	Samsung SDI	Iron Edison
Product Name	Powerwall	Li-ion Storage Battery System	DESS	KHESS	All-in-one ESS	Iron Edison Battery
Storage Capacity	6.4 kWh	8.0 kWh	>=8 kWh	5.38-15.54kWh	3.6 - 5.5 kWh	9.36 - 52 kWh
Voltage	350 - 450 V	250 V	52 V (DC)	51.8 V (DC)	230 V	52 V (DC)
Weight	100 kg	159 kg	75 Lg		95 kg (3.6 kWh)	118 - 710 kg
Price	US\$3,000					US\$9,919 - 35,760



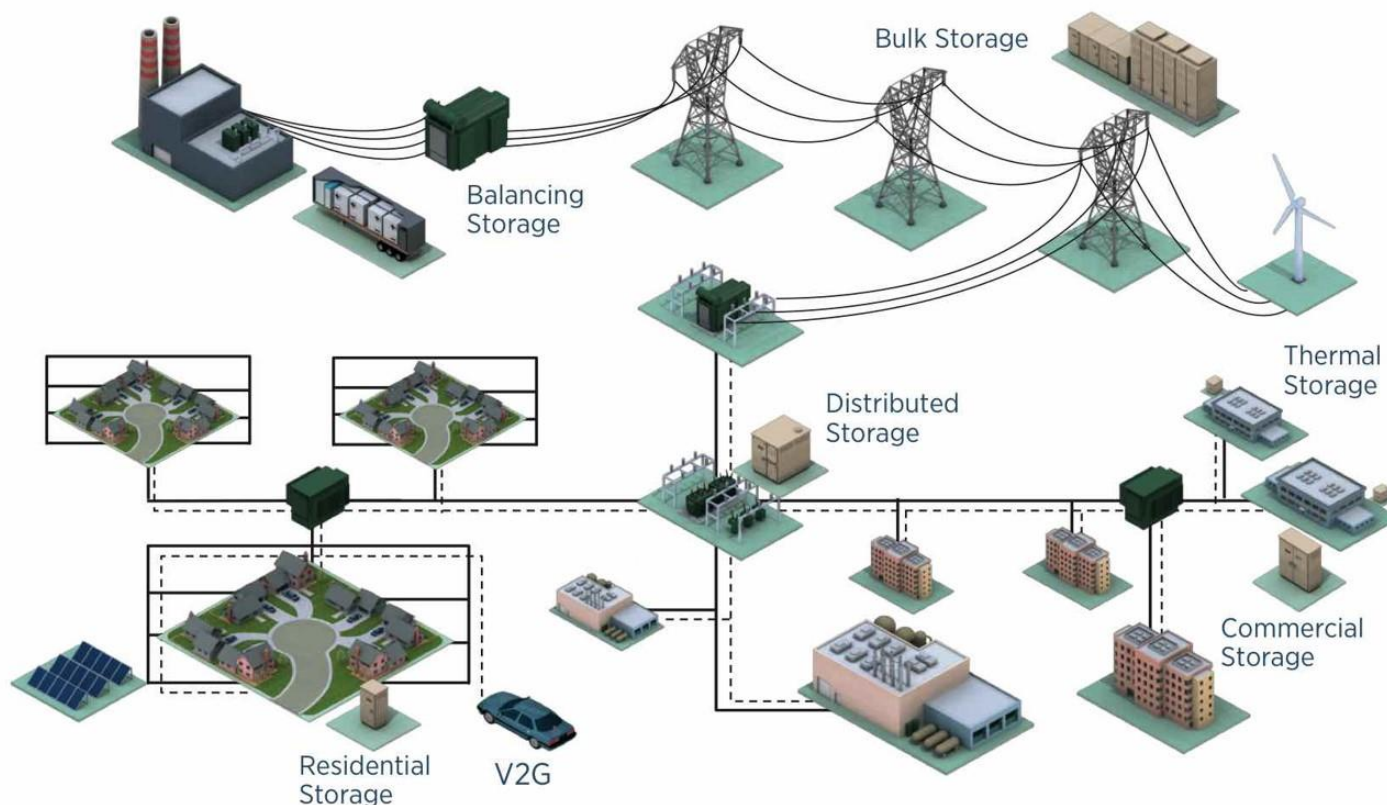
Company	LG Chem	Saft Groupe	Juice Box	Simpliphi	Orison	Schneider Electric
Product Name	RESU 6.4 EX	Intension Home	Energy Storage System	PHI2.6/PHI3.4	Orison Panel/ Tower	Ecoblade
Storage Capacity	6.4 kWh	4 - 10 kWh	8.6 kWh	2.6 / 3.4 kWh	2.2 kWh	5 kWh (per blade)
Voltage	51.8 V (DC)	48 V (DC)	50 V (DC)	48 V (DC)	120 V	
Weight	60 kg	85 kg (4 kWh)	127 kg	26.1 / 34.8 kg	17 kg/ 18 kg	25 kg
Price	EUR 4,087					US\$500/kWh



Source: Deutsche Bank, Company data

## Potential locations and applications of lithium based energy storage systems in the power system

### Illustrative Power System

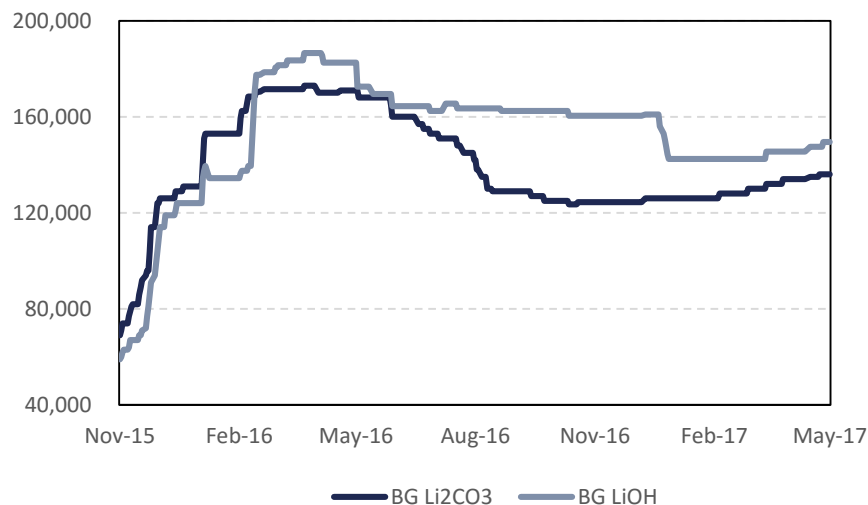


Source: IRENA 2015

## Pricing in China increased rapidly from 4Q 2015 through to April 2016, due to rapid demand growth in the NEV sector – now settling at c. 3x early 2015 pricing

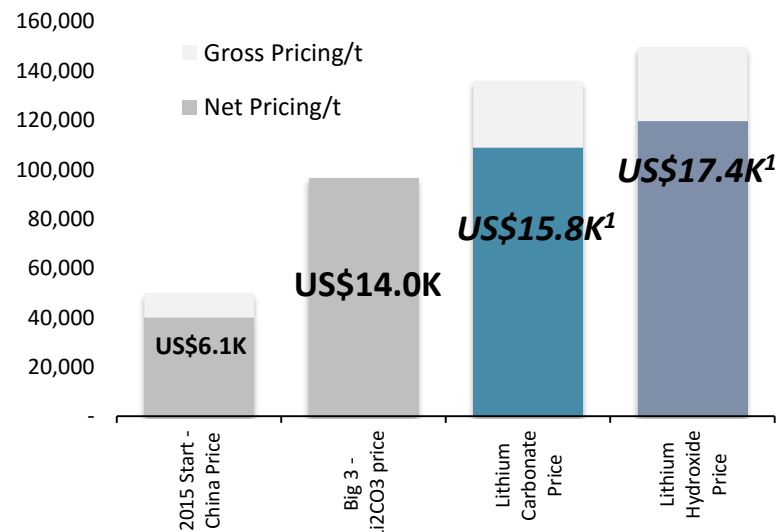
- Continued strength in lithium prices is a clear indication that demand growth is likely to be outpacing supply side growth
- After becoming the dominant single market consumer of lithium compounds, as well as the leading producer of the same, China has transitioned from previously being a price follower into being the price setter
- With an ongoing lagged supply side response, due to pipeline development projects being undercapitalized, coupled with the potential for delays and budget overruns in bringing these projects online, the **demand supply balance is expected to remain very tight through to at least 2020**

### Historical Lithium Prices (RMB/t)



Source: CJ Securities

### Lithium Carbonate Price Comparison (RMB/t)



Notes:

1. BG Li<sub>2</sub>CO<sub>3</sub> and LiOH prices are current as at May 2017

# Galaxy Operations Update

---

# Mt Cattlin – Production Ramp Up Continues



**Restart complete, three shipments completed to customers, project grade improving and moving into 2017 contract volumes and pricing**

**Restart production and plant expansion**

- Upgrade and expansion of processing facility
- Commissioning of expanded Mt Cattlin facility
- Recommencement of spodumene production in 4Q 2016

**First delivery and 2017 contracting**

- 120kt of lithium concentrate sold at US\$830/t (FOB, 5.5% Li<sub>2</sub>O, pricing of US\$905/t at 6.0% Li<sub>2</sub>O) for delivery in 2017
- First shipment in January 2017 from Esperance Port

**Operational ramp-up, optimisation studies and exploration**

- Second shipment completed on 1 March 2017
- Plant throughput nameplate of 210tph achieved
- Third shipment complete – fulfilling 2016 offtake obligations
- Production ramp-up to meet targeted run-rate of 160ktpa
- Optimisation studies to improve recoveries above the initial 50% targets
- Extensive brownfield and greenfield exploration drilling campaign
- Refurbishment of the mine's fixed crushing circuit to re-start in 3Q 2017

*Mt Cattlin production ramp-up*



*Fig. 1: Recommencement of mining operations following engagement of Piacentini & Sons as mining contractor*

*Fig. 2: Lithium Concentrate loading at Mt Cattlin for transport to the Esperance Port*

*Fig. 3: Mt Cattlin operations*



## DFS update confirmed compelling economics, strong in-country team in place, development activities well underway

### Primary site works

### Project studies and demo plant

#### Sal de Vida Corporate

- Confirmation of Development Team for the Sal de Vida Project
- Renewal of Environmental Permit from Catamarca

#### Site Works and Drilling

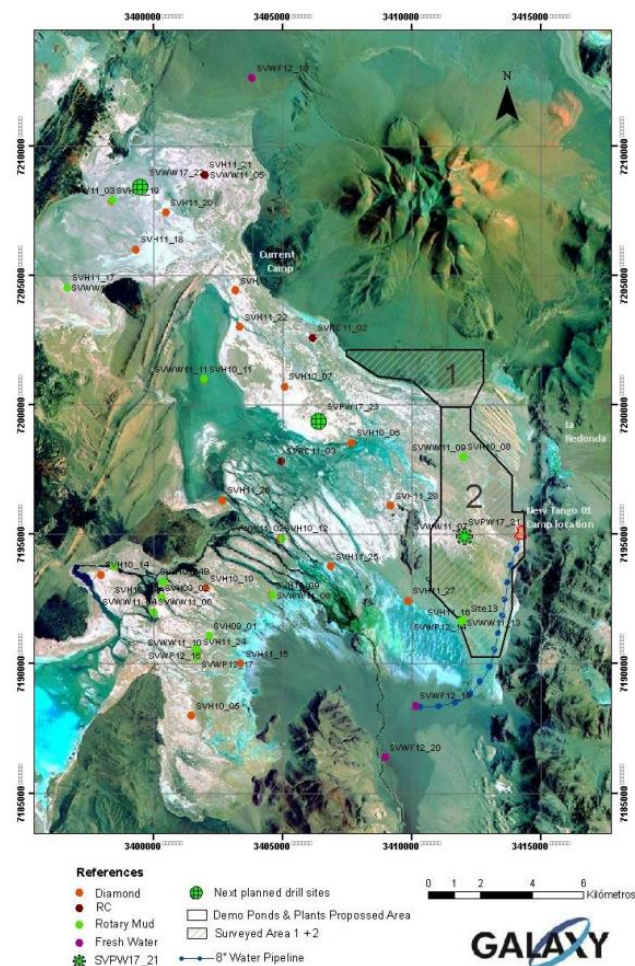
- Relocation of existing camp facilities to facilitate earthworks
- First 150m deep drill hole for planned production wells to supply brine to the new evaporation ponds
- Earthworks for second drill pad and existing access road improvement
- Second 150m deep drill hole for planned production well
- Construction of initial evaporation ponds

#### Project Studies

- DFS update completed, confirmed compelling economics
- 3,000Ha topographic studies to facilitate the construction of an initial evaporation pond, and full scale commercial ponds
- Hydraulic studies around primary drill hole locations to better understand localised brine flow rates

#### Demo Plant Program

- Relocation/upgrade of existing pilot plant equipment in May 2017
- Resumption of pilot scale testing



## Drilling program, relevant environmental studies and DFS process underway, borrowing experience and learnings from Mt Cattlin

Drilling program and environmental studies

Definitive Feasibility Study

### James Bay Corporate

- Capital raising completed to fund development program
- James Bay development team established

### Diamond Drill Program

- Drill program that aims to nearly triple the aggregate 14,000m of depth drilled at the project thus far
- In-fill drilling to substantially upgrade mineral resources and define ore reserve
- Step-out holes to explore pegmatite extensions down-dip
- Drilling of 3-4 pegmatites, previously mapped, but never drilled
- Map out pegmatites on the east side of the Matagami-Radisson Highway for drilling later in the year, following the snow melt

### Environmental Studies

- Environmental and Social Impact Assessment (ESIA) – Phase 1

### Definitive Feasibility Study Works

- Bulk sampling of existing stockpiles
- Pilot-plant scale metallurgical test work
- Formal revision to the resources/reserves of the project from new data collected

*Site works underway*



*Spodumene bearing outcrop*



## Production at Mt Cattlin continues to ramp-up, with subsequent margin improvement; and development activities at the other projects are accelerating

### MACRO

*Robust lithium demand*

- Continued strong growth in demand for lithium, led by increase in NEV sales
- Lagged response from supply-side, increased pricing levels are being sustained

### MT CATTLIN

*Production & ramp-up*

- Focus on production ramp-up to meet 2017 production guidance
- Continued processing optimisation to improvement operating margins

### SAL DE VIDA

*Offtake and project financing*

- Ongoing discussions with offtakers, strategic partners and project financiers
- Site works commencing, including commencement of demo plant program

### JAMES BAY

*Project development*

- Comprehensive diamond drill program to upgrade existing Resource to Reserves
- Completion of DFS program, drawing on Mt Cattlin experience for study acceleration



This document contains forward looking statements concerning the projects owned by Galaxy. Statements concerning mining reserves and resources may also be deemed to be forward looking statements in that they involve estimates based on specific assumptions. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes. Forward looking statements in this document are based on Galaxy's beliefs, opinions and estimates of Galaxy as of the dates the forward looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments. There can be no assurance that Galaxy's plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that Galaxy will be able to confirm the presence of additional mineral deposits, that any mineralization will prove to be economic or that a mine will successfully be developed on any of Galaxy's mineral properties. Circumstances or management's estimates or opinions could change. The reader is cautioned not to place undue reliance on forward-looking statements. Data and amounts shown in this document relating to capital costs, operating costs, potential or estimated cashflow and project timelines are internally generated best estimates only. All such information and data is currently under review as part of Galaxy's ongoing operational, development and feasibility studies. Accordingly, Galaxy makes no representation as to the accuracy and/or completeness of the figures or data included in the document. Not For Release in US This presentation does not constitute an offer of securities for sale in any jurisdiction, including the United States. Any securities described in this presentation may not be offered or sold in the United States absent registration or an exemption from registration under the United States Securities Act of 1933, as amended, following the preparation of required documents and completion of required processes to permit such offer or sale.

## **CONTACT INFORMATION**

Level 4 / 21 Kintail Road,  
Applecross, Western Australia 6153  
PO Box 1337, Canning Bridge LPO  
Applecross WA 6953  
T: +61 8 9215 1700  
F: +61 8 9215 1799  
E: [info@galaxylithium.com](mailto:info@galaxylithium.com)

# Competent & Qualified Persons' Statement



## **Sal de Vida**

The information in this report that relates to the estimation and reporting of the Sal de Vida Project Mineral Resources and Mineral Reserves is extracted from the report entitled "Sal de Vida: Revised Definitive Feasibility Study Confirms Low Cost, Long Life and Economically Robust Operation" created on 22 August 2016 which is available to view on [www.galaxylithium.com](http://www.galaxylithium.com) and [www.asx.com.au](http://www.asx.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Mineral Resources and Mineral Reserves estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

## **James Bay**

The information in this report that relates to Mineral Resources at the James Bay Project is based on work completed by Mr James McCann, who is a Member of a Recognised Overseas Professional Organisation. Mr McCann is a full time employee of McCann Geosciences, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr McCann consents to the inclusion in the report of the matters based on his information in the form and context it appears. This information was prepared and first disclosed under the JORC Code 2004 it has not been updated since to comply with JORC code 2012 on the basis that the information has not materially changed since it was last reported.

## **Mt Cattlin**

The information in this report that relates to the estimation and reporting of the Mt Cattlin Project Mineral Resources and Mineral Reserves is extracted from the report entitled "Mt Cattlin Update: Revised Resource & Reserve Statement" created on 4 August 2015 published by General Mining Limited (ASX: GMM) which is available to view on [www.asx.com.au](http://www.asx.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement made by GMM. The Company understands that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

## **Production Targets and Financial Information**

Information in relation to the Sal de Vida Revised Definitive Feasibility Study, including production targets and financial information, included in this report is extracted from the report entitled "Sal de Vida: Revised Definitive Feasibility Study Confirms Low Cost, Long Life and Economically Robust Operation" created on 22 August 2016 which is available to view on [www.galaxylithium.com](http://www.galaxylithium.com) and [www.asx.com.au](http://www.asx.com.au). The Company confirms that all material assumptions underpinning the production target and financial information set out in the announcement dated 22 August 2016 continue to apply and have not materially changed.